

SECRET

File

R-218/66
8 March 1967

VITAL RECORDS COPY

This is the eighth group of items disseminated as part of NPIC/R-218/66, Southeast Asia Activity Report, POL Facilities, North Vietnam. Eight items are included in this portion of the report, 6 newly reported sites and 2 updated items. The updated items are as follows:

Ha Gia Petroleum Products Storage SSW UG, A5, A6, X-A5; and

Ba Don Petroleum Products Storage, B75, B76, X-B75.

Each new or updated page carries the date of the covering memo directly under the NPIC report number. NPIC will continue to disseminate new and updated items on a continuing basis as photography becomes available.

Declass Review, NIMA/DoD

DIA HAS NO OBJECTION TO
DECLASSIFICATION AND RELEASE.

DIA review(s) completed.

SECRET

GROUP 1
Excluded from automatic
downgrading and declassification

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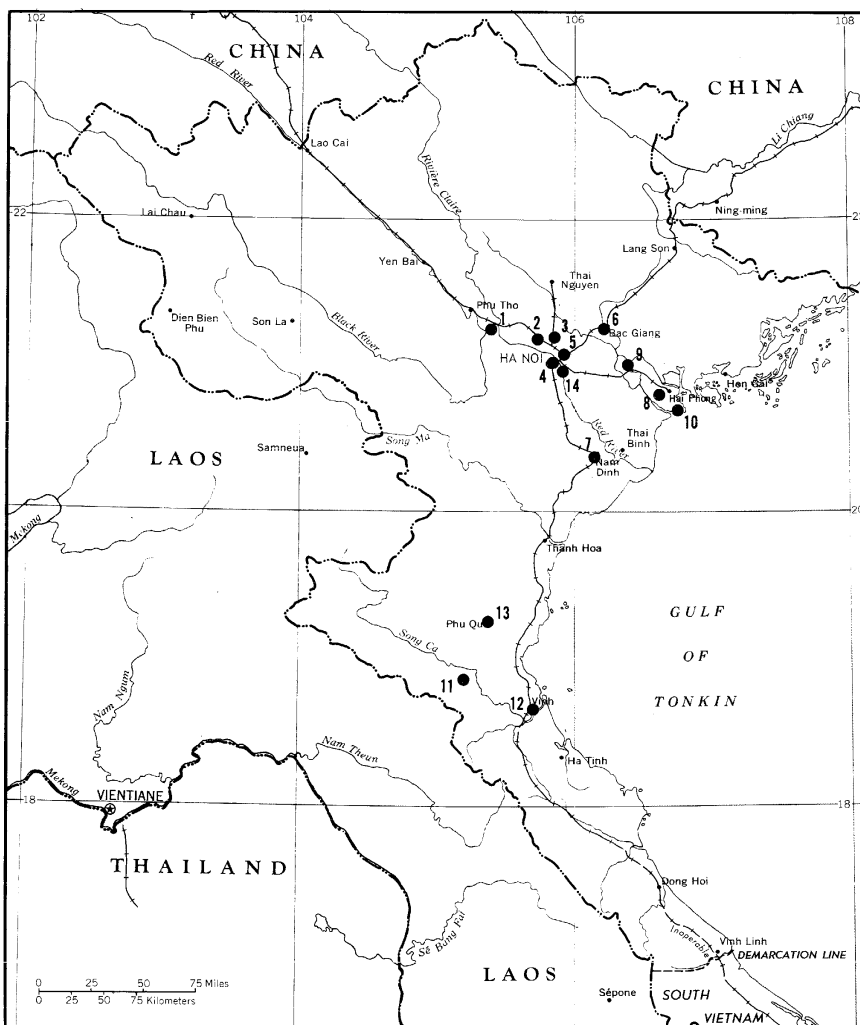
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KEY TO CATEGORY A

PERMANENT STORAGE AND HANDLING AREAS

1. Viet Tri Petroleum Products Storage
2. Phuc Yen Airfield POL Storage Area
3. Ha Gia Petroleum Products Storage SSW UG
4. Ha Noi Petroleum Products Storage Thanh Am
5. Nguyen Khe Petroleum Products Storage
6. Bac Giang Petroleum Products Storage
7. Nam Dinh Petroleum Products Storage
8. Hai Phong Petroleum Products Storage
9. Duong Nham Petroleum Products Storage
10. Do Son Petroleum Storage
11. Phu Van POL Storage
12. Vinh Petroleum Products Storage
13. Phu Qui Petroleum Products Storage
14. Ha Noi Gia Lam Airfield POL Storage Area

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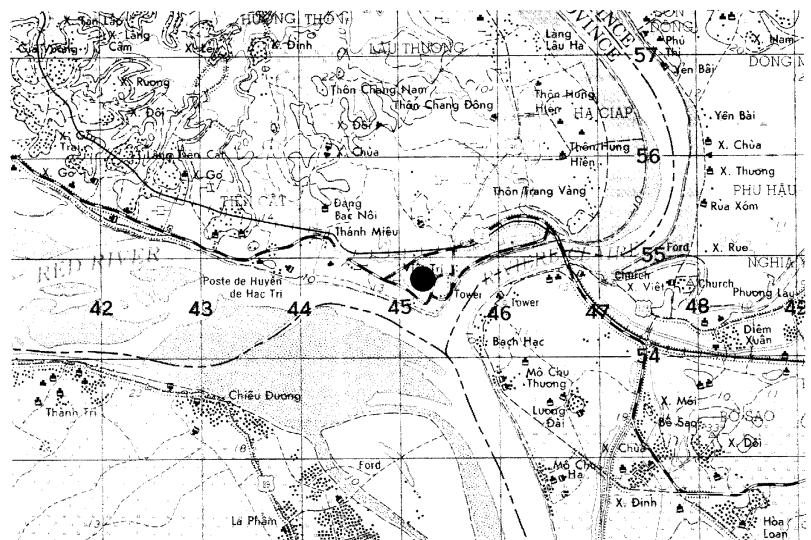
R-218/66
1 December 1966

25X1A

WJ453547
UTM COORDINATES2117N 10526E
GEOGRAPHIC COORDINATES**NAME:** VIET TRI PETROLEUM PRODUCTS STORAGE**LOCATION:** IMMEDIATELY SOUTH OF VIET TRI, AT THE CONFLUENCE OF THE RED AND CLAIRE RIVERS, 28 NM NW OF HA NOI**DESCRIPTION:** PRIOR TO FIRST STRIKE, FACILITY CONTAINED 3 MEDIUM ABOVEGROUND, 2 MEDIUM UNDERGROUND CYLINDRICAL, AND 4 SERVICE TANKS. THE LARGE TANK OBSERVED ON PHOTOGRAPHY [REDACTED] WAS REMOVED. PHOTOGRAPHY [REDACTED] REVEALS 3 MEDIUM TANKS UNUSABLE DUE TO BOMB DAMAGE OR DISMANTLING; 1 UNDERGROUND TANK UNDA-
MAGED AND 1 WITH TOP SECTION UNCOVERED; AND 2 DESTROYED, 1 DAMAGED, AND 1 UNDA-
MAGED SERVICE TANK. APPROXIMATELY 450 DRUMS (PROBABLY EMPTY) ARE STACKED NEAR TRANSSHIPMENT POINT.**ESTIMATED CAPACITY:** PRE-STRIKE TANK 1,670 MT (EXCLUSIVE OF UNDERGROUND TANKS)
POST-STRIKE TANK 25 MT (EXCLUSIVE OF UNDERGROUND TANKS)**MAP REFERENCES:** AMS SERIES L701, SHEET 6074 I, 1ST ED, JUN 65 (U)

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AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

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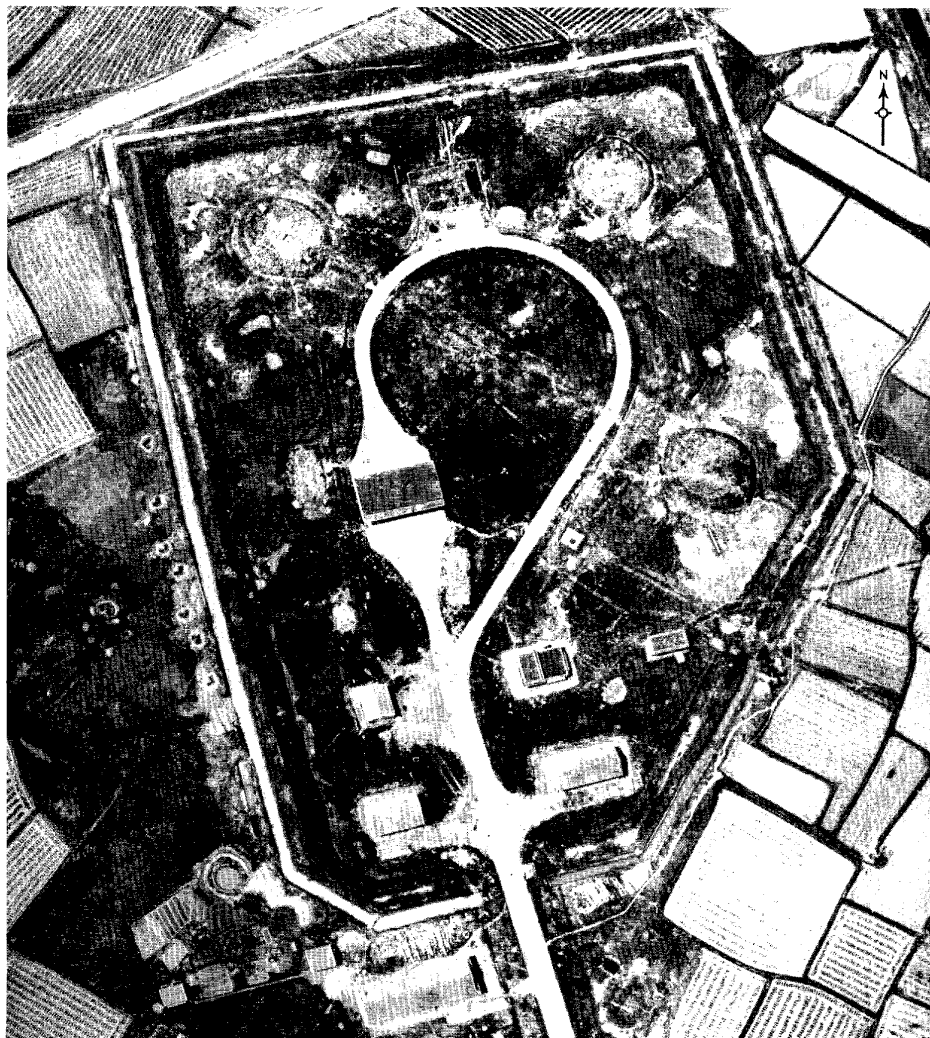
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WJ836482
UTM COORDINATES

PHUC YEN AIRFIELD POL STORAGE AREA

2114N 10548E
GEOGRAPHIC COORDINATES



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A4

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21104 10550E
8 March 1967

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UTM COORDINATES

GEOGRAPHIC COORDINATES

NAME: HA GIA PETROLEUM PRODUCTS STORAGE SITE

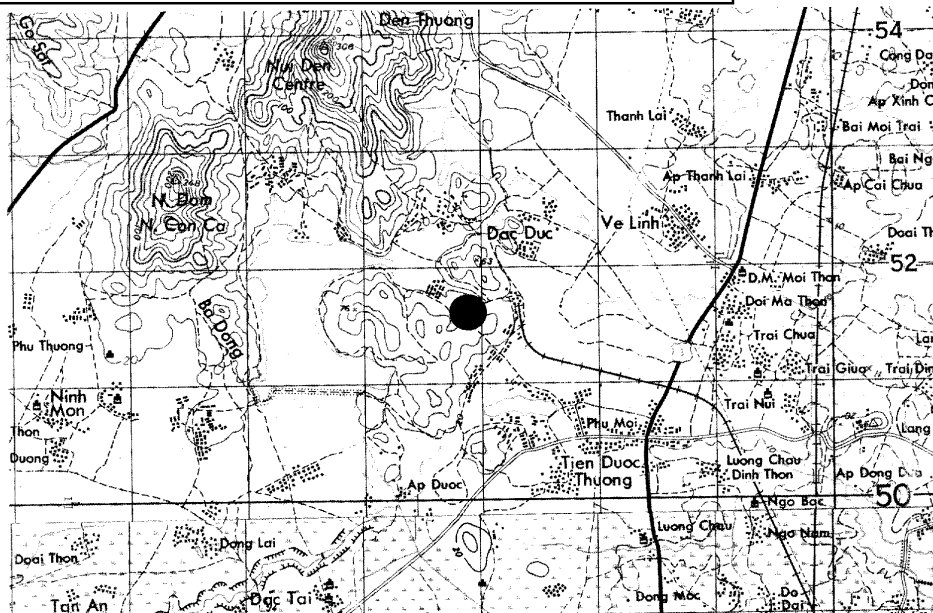
LOCATION: 3.4 NM NNE OF PHUC YEN AIRFIELD

DESCRIPTION: PHOTOGRAPHY [REDACTED] REVEALS A RAIL- AND ROAD-SERVED FACILITY CONTAINING 9 PARTIALLY BURIED CYLINDRICAL TANKS AND 8 HORIZONTAL BUNKERED TANKS DISPERSED AMONG LOW HILLS. PHOTOGRAPHY [REDACTED] REVEALS 2 CYLINDRICAL TANKS HAVE SEVERE ROOF DAMAGE AND 1 HORIZONTAL TANK IS POSSIBLY DAMAGED.

ESTIMATED CAPACITY: PRE-STRIKE TANK 11,800 MT; POST-STRIKE TANK 9,188 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6151 I, 1ST ED, 1964 (U)
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

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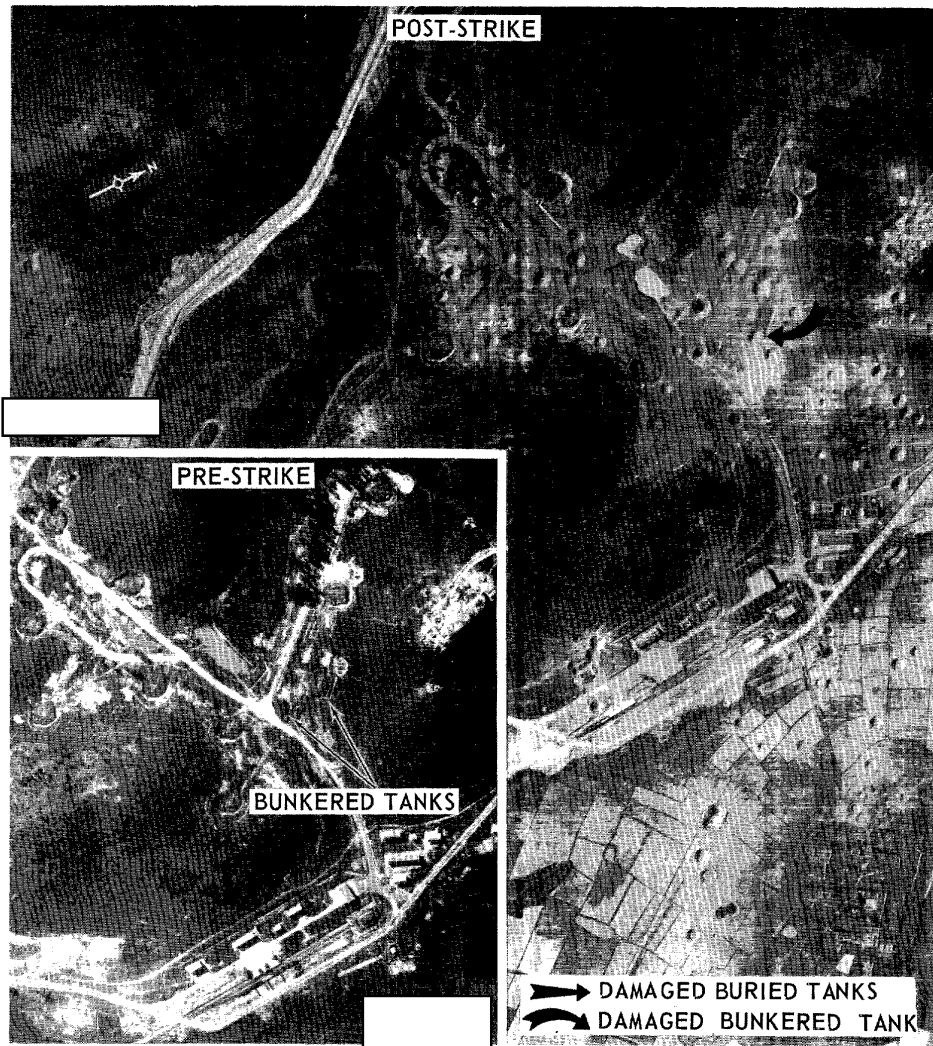
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HA GIA PETROLEUM PRODUCTS STORAGE SSN UG

WJ868516
UTM COORDINATES

21164 10550E
GEOGRAPHIC COORDINATES



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	WJ932294 UTM COORDINATES	2103N 10553E GEOGRAPHIC COORDINATES
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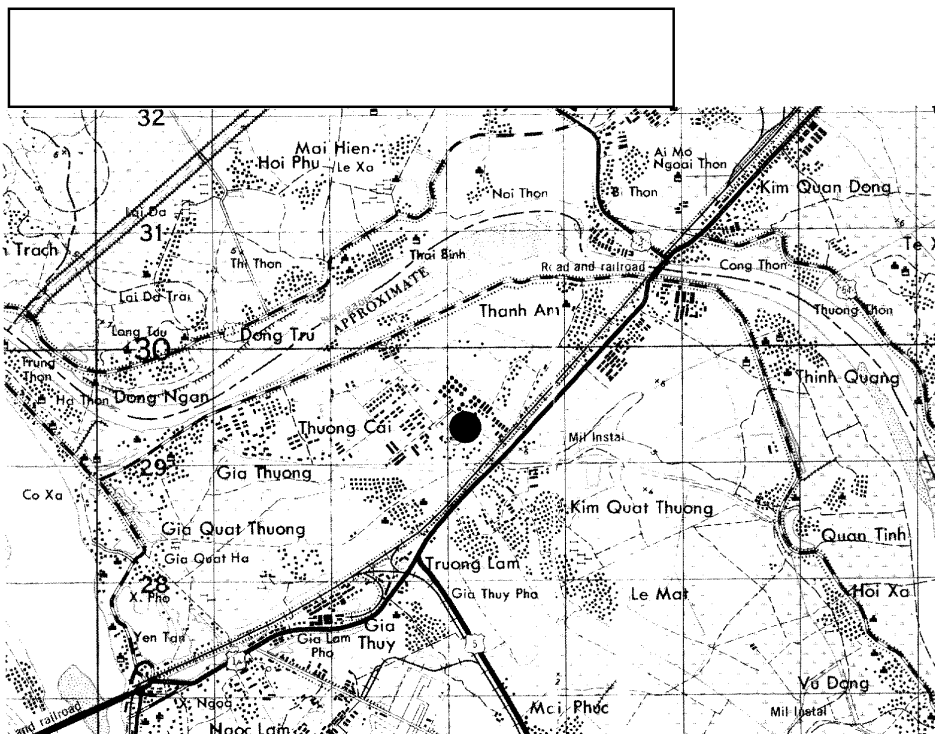
NAME: HA NOI PETROLEUM PRODUCTS STORAGE THANH AM

LOCATION: 3.7 NM NE OF HA NOI AND IMMEDIATELY SW OF THANH AM

DESCRIPTION: PRE-STRIKE PHOTOGRAPHY REVEALS 32 MEDIUM AND 4 SMALL CYLINDRICAL AND 6 HORIZONTAL SERVICE TANKS. POST-STRIKE PHOTOGRAPHY [REDACTED] REVEALS 23 MEDIUM, 4 SMALL, AND 2 SERVICE TANKS DESTROYED, 9 MEDIUM TANKS DAMAGED, AND 4 SERVICE TANKS POSSIBLY DAMAGED. PHOTOGRAPHY [REDACTED] REVEALS THE 9 MEDIUM TANKS DISMANTLED AND AT LEAST 3,000 DRUMS IN THE WAREHOUSE/TRANSHIPMENT AREA.
ESTIMATED CAPACITY: PRE-STRIKE TANK 36,453 MT, POST-STRIKE TANK NONE DRUM 600 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6151 II, 1ST ED, 1964 (U)
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

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Ngoc Son Petroleum Products Storage PUG	B17, B18
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Nui Tap Tinh POL Storage Area	B63, B64
Sac Le POL Storage Area	B65, B66
Phu Dong POL Storage Area	B67, B68
Thuan Le POL Storage Area	B69, B70
Phu Loc Petroleum Products Storage	B71, B72
Thanh Hoa POL Storage Area	B73, B74
Ba Don Petroleum Products Storage	B75, B76
Phuc Loi Petroleum Products Storage Navy	B77, B78

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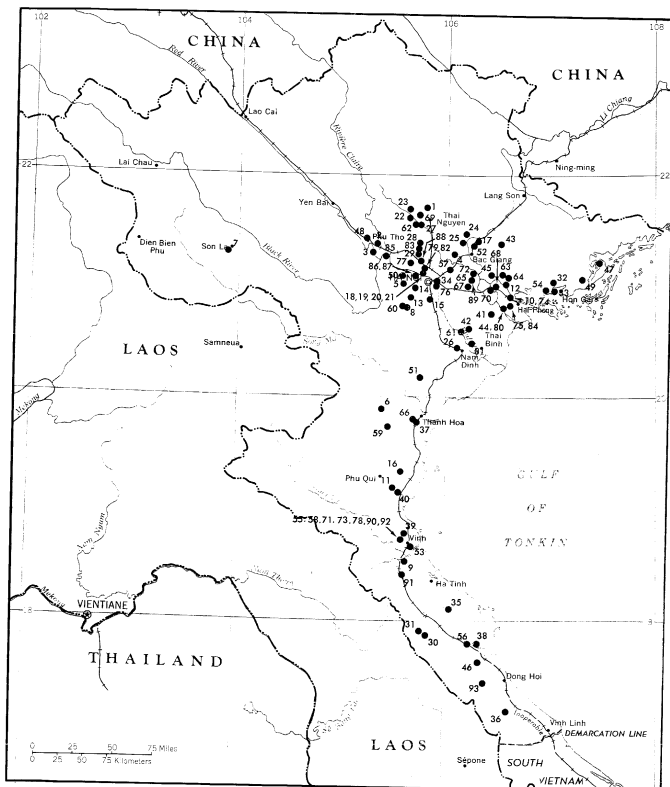
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KEY TO CATEGORY B
DISPERSED STORAGE AREAS

1. Lo Danh Petroleum Products Storage PUG
2. Van Lung Petroleum Products Storage UG
3. Van Lung Petroleum Products Storage West UG
4. Hoang Mai POL Storage Area
5. Ha Noi Petroleum Products Thi Cam
6. Bai Thuong Petroleum Products Storage UG Southeast
7. Son La Petroleum Products Storage
8. Thuong Thon Petroleum Products Storage UG
9. Ngoc Son Petroleum Products Storage UG
10. Thai Lai Petroleum Products Storage
11. Yen Hai Petroleum Products Storage PUG
12. Thanh Lang Petroleum Products Storage PUG
13. Ha Noi Petroleum Products Storage UG Thanh Liet (Area 1)
14. Ha Noi Petroleum Products Storage UG Thanh Liet (Area 2)
15. Bang So Petroleum Products Storage PUG
16. Son Chau Petroleum Products Storage PUG
17. Kep Petroleum Products Storage
18. Ha Noi Petroleum Products Storage Duc Noi (Area 1)
19. Ha Noi Petroleum Products Storage Duc Noi (Area 2)
20. Ha Noi Petroleum Products Storage Duc Noi (Area 3)
21. Ha Noi Petroleum Products Storage Duc Noi (Area 4)
22. Cu Van Petroleum Products Storage
23. Cu Van Petroleum Products Storage East UG
24. Dao Quan Petroleum Products Storage East
25. Dao Quan Petroleum Products Storage West
26. Nam Dinh Petroleum Products Storage UG
27. Thai Nguyen Petroleum Products Storage PUG South
28. Phu Yen Airfield POL Storage Area 2
29. Phu Yen Airfield POL Storage Area 2
30. Nom Duong Quan Petroleum Products Storage UG East
31. Nom Duong Quan Petroleum Products Storage UG
32. Nui Tap Tinh POL Storage Area
33. Sac Le POL Storage Area
34. Phu Dong POL Storage Area
35. Thuan Le POL Storage Area
36. Phu Loc Petroleum Products Storage
37. Thanh Hoa POL Storage Area
38. Ba Don Petroleum Products Storage
39. Phu Loi Petroleum Products Storage Navy
40. Tho Trang Petroleum Products Storage
41. Ninh Giang Petroleum Products Storage
42. Viet Yen Petroleum Products Storage
43. Kep Ha Petroleum Products Storage
44. Tien Hoi Petroleum Products Storage
45. Dong Mai Petroleum Products Storage
46. Nom Lang POL Storage
47. Van Hoa POL Storage
48. Phu Lo Petroleum Products Storage NNE UG
49. Jaune Island POL Storage
50. Co Nhue Vm Petroleum Products Storage
51. Quang Sui Petroleum Products Storage
52. Trung Phu Petroleum Products Storage
53. Gia Hoa Petroleum Products Storage PUG
54. Bai Clay Petroleum Products Storage Yen Thinh
55. Vinh Petroleum Products Storage Yen Thinh
56. Ba Don Petroleum Products Storage UG West
57. Bac Ninh Petroleum Products Storage PUG
58. Vinh Petroleum Products Storage PUG Xuan Yen
59. Tri Binh Petroleum Products Storage
60. Nuyen Dong Petroleum Products Storage
61. Cao Cong Petroleum Products Storage
62. Tung Tu Petroleum Products Storage UG
63. Don Son Petroleum Products Storage
64. Quy Khe Petroleum Products Storage
65. Tran Xa Petroleum Products Storage
66. Thanh Hoa Petroleum Products Storage
67. Tram Du Petroleum Products Storage
68. Luc Nong Petroleum Products Storage
69. Thai Nguyen Petroleum Products Storage
70. Tien Nong Petroleum Products Storage
71. Vinh Petroleum Products Storage PUG Ben Thuy
72. Chi Linh Petroleum Products Storage
73. Vinh Petroleum Products Storage PUG Yen Dai
74. Hoang Pha Petroleum Products Storage
75. Kien An Petroleum Products Storage
76. Phu Thi Petroleum Products Storage
77. Phu Yen Petroleum Products Storage
78. Vinh Petroleum Products Storage North UG
79. Mach Trang Petroleum Products Storage
80. Tran Bac Petroleum Products Storage
81. Nam Lo Petroleum Products Storage
82. Ha Noi Petroleum Products Storage Duc Noi (Area 5)
83. Lai Son Petroleum Products Storage
84. Phu Na Petroleum Products Storage
85. Hoa Loan Petroleum Products Storage
86. Tu Hoang Petroleum Products Storage
87. Tay Luu Petroleum Products Storage East
88. Nguyen Khe Petroleum Products Storage
89. Cap Dien Petroleum Products Storage
90. Vinh Petroleum Products Storage PUG North No 2
91. Nom Thap Petroleum Products Storage
92. Vinh Petroleum Products Storage North No 3
93. Cu Hap Petroleum Products Storage

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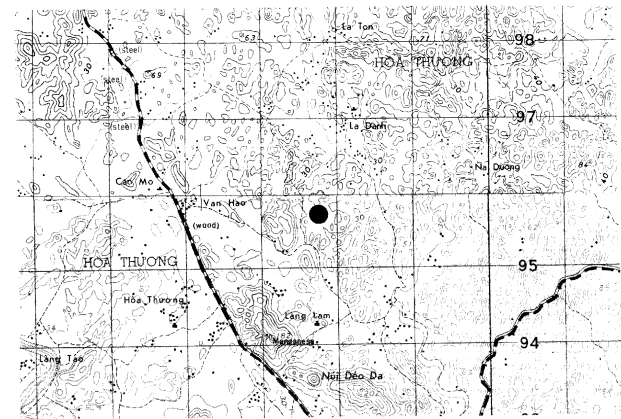
	WJ877956	2139N 10550E
	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: LA DANH PETROLEUM PRODUCTS STORAGE PUG
LOCATION: 4.1 NM NORTH OF THAI NGUYEN AND 0.8 NM EAST OF VAN HAO

DESCRIPTION: STORAGE AREA CONSISTS OF 2 ADJACENT SITES. EAST AREA CONTAINS APPROXIMATELY 116 BUNKERED TANKS, 6 UNBURIED MEDIUM TANKS, 15 EXCAVATIONS, AND APPROXIMATELY 4,000 DRUMS DISPERSED UNDER TREES. WEST AREA, 0.3 NM WEST, CONTAINS AT LEAST 475 DRUMS IN OPEN STORAGE AND IN 9 EXCAVATIONS AND 9 ADDITIONAL EXCAVATIONS. BOMB CRATERS ARE OBSERVED IN EACH AREA.
ESTIMATED CAPACITY: TANK 1,464 MT DRUM 895 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6175-1, 1ST ED, OCT 63 (U)
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

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WG829881
UTM COORDINATES

THANH HOA POL STORAGE AREA

1947N 10547E
GEOGRAPHIC COORDINATES



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	XE528634 UTM COORDINATES	1745.4 10626E GEOGRAPHIC COORDINATES
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NAME: BA DON PETROLEUM PRODUCTS STORAGE

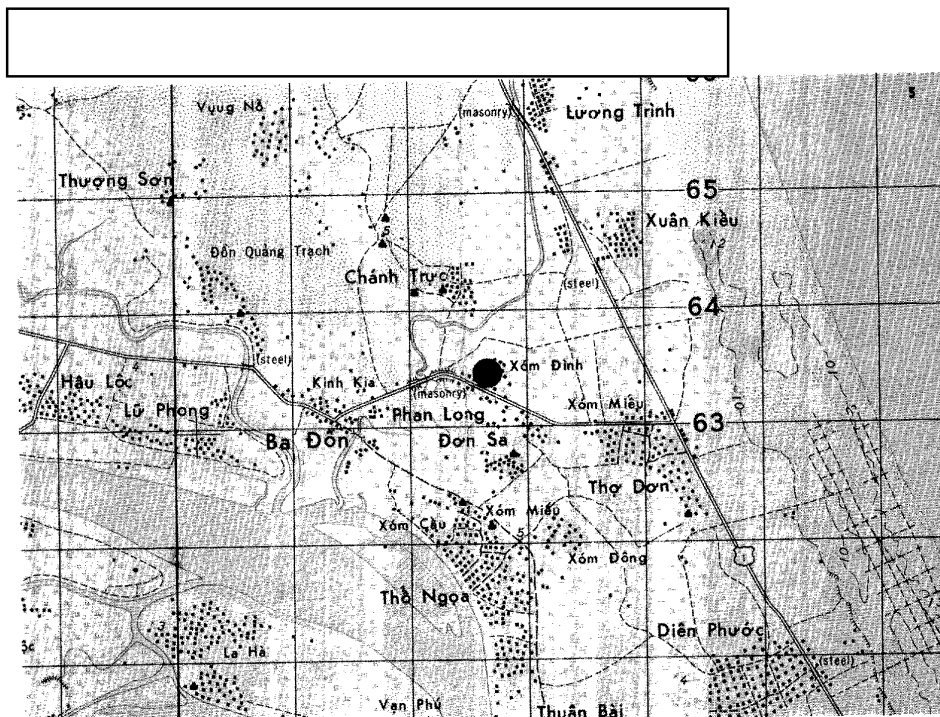
LOCATION: 0.8 NM EAST OF BA DON AND IMMEDIATELY NORTH OF ROUTE 110

DESCRIPTION: PHOTOGRAPHY [REDACTED] REVEALS THE AREA CONTAINING 16 BUNKERED TANKS AND APPROXIMATELY 1,400 DRUMS. PHOTOGRAPHY [REDACTED] REVEALS THE AREA IS EXTENSIVELY CRATERED AND PROBABLY ABANDONED. NO DRUM STORAGE IS APPARENT AND ONLY 6 BUNKERED TANKS AND 1 UNBURIED TANK REMAIN.

ESTIMATED CAPACITY: PRE-STRIKE TANK 192 MT, DRUM 280 MT
POST-STRIKE TANK 84 MT, DRUM NONE

MAP REFERENCES: AMS SERIES L701, SHEET 6204 II, 1ST ED, JUN 62 (U)
AMS SERIES JOG(G) 1501, SHEET NE 48-11, 1ST ED, JUN 65 (U)

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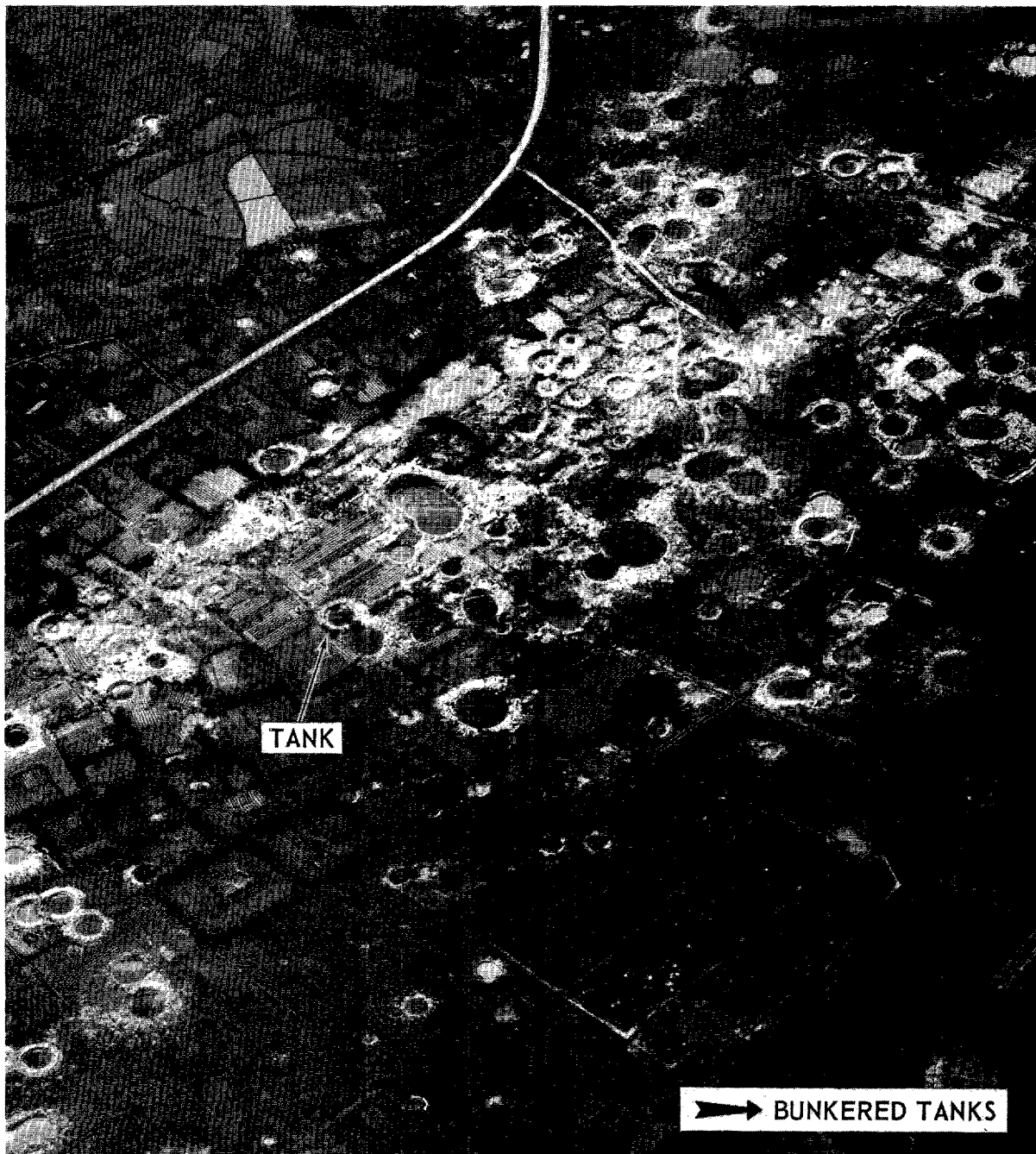
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B75

BA DON PETROLEUM PRODUCTS STORAGE

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UTM COORDINATES

1745N 10026E
GEOGRAPHIC COORDINATES



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WF786702
UTM COORDINATES

1843N 10544E
GEOGRAPHIC COORDINATES

NAME: PHUC LOI PETROLEUM PRODUCTS STORAGE NAVY

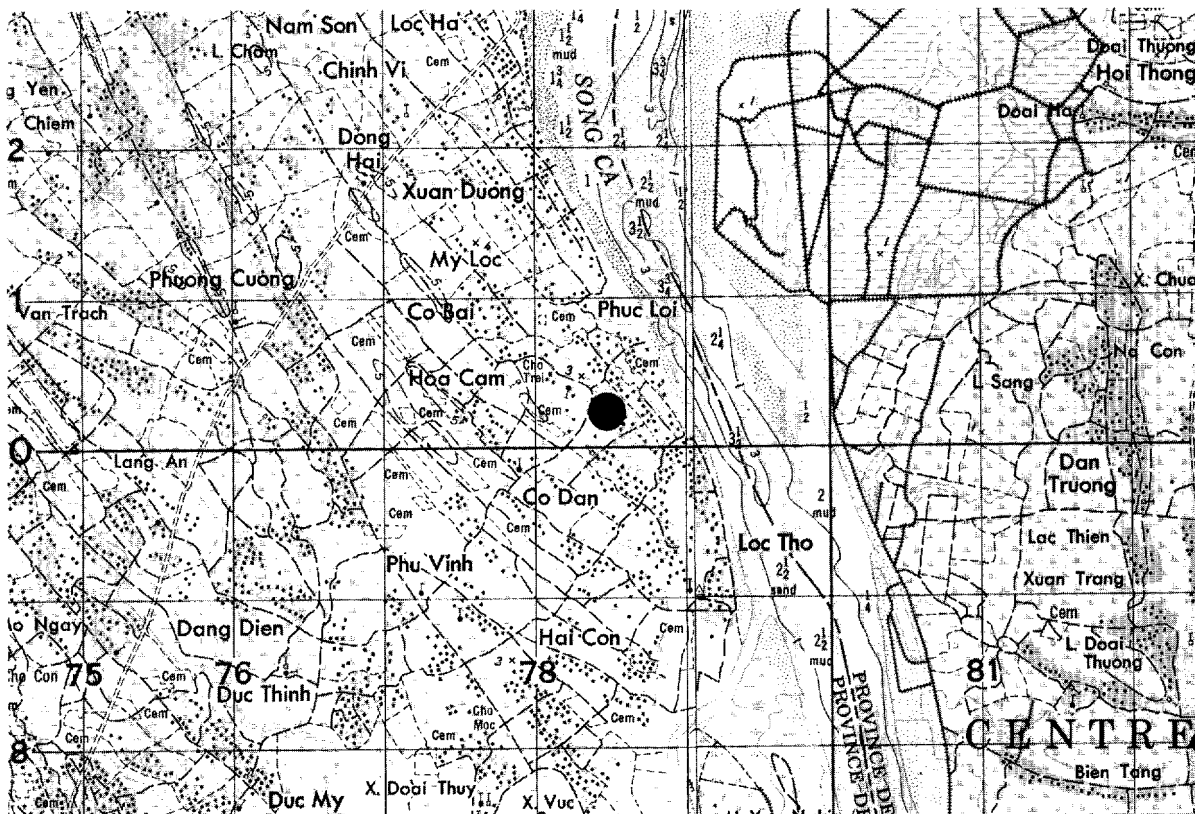
LOCATION: IMMEDIATELY WEST OF PHUC LOI NAVAL BASE AND 5.2 NM NE OF VINH

DESCRIPTION: FACILITY CONSISTS OF 2 POL BUNKERS, EACH APPROXIMATELY 60 X 20 FT AND EACH CONTAINING 6 LARGE HORIZONTAL TANKS. FACILITY HAS BEEN SUBJECTED TO STRIKE, BUT NO DAMAGE IS APPARENT TO TANKS; HOWEVER, UNDERGROUND PIPING HAS BEEN DISRUPTED AND PUMPHOUSE JUST EAST OF BUNKERS HAS BEEN DESTROYED.

ESTIMATED CAPACITY: TANK 300 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6167 III, 1ST ED, DEC 60 (U)
AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)

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NGUYEN KHE PETROLEUM PRODUCTS STORAGE

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UTM COORDINATES

2110N 10551E
GEOGRAPHIC COORDINATES



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0616-
BE NUMBER

XJ364283
UTM COORDINATES

2103N 10618E
GEOGRAPHIC COORDINATES

NAME: CAP DIEN PETROLEUM PRODUCTS STOPAGE

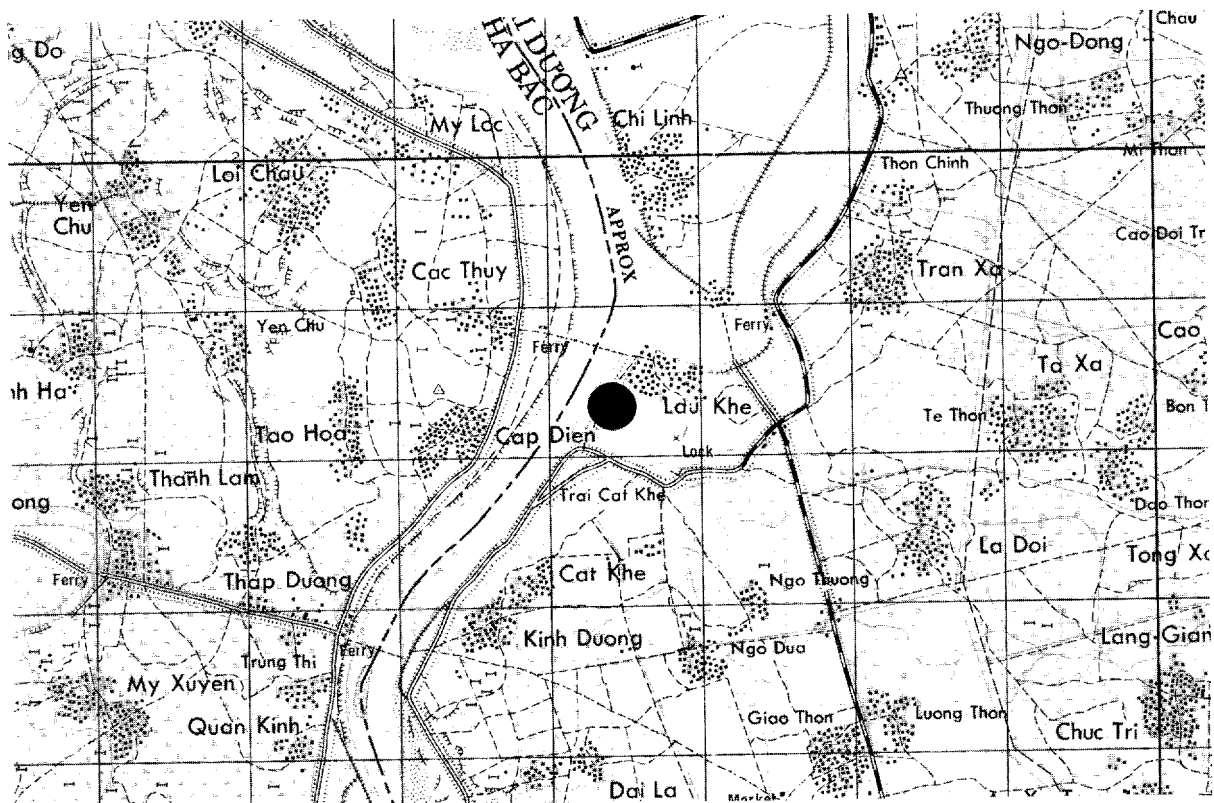
LOCATION: 0.5 NM EAST OF CAP DIEN ON EAST BANK OF THE SONG THAI BINH

DESCRIPTION: ROAD-AND WATER-SERVED AREA CONTAINS A SINGLE ROW OF 18 BUNKERED TANKS.

ESTIMATED CAPACITY: TANK 216 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6251 II, 1ST ED, 1965 (U)
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

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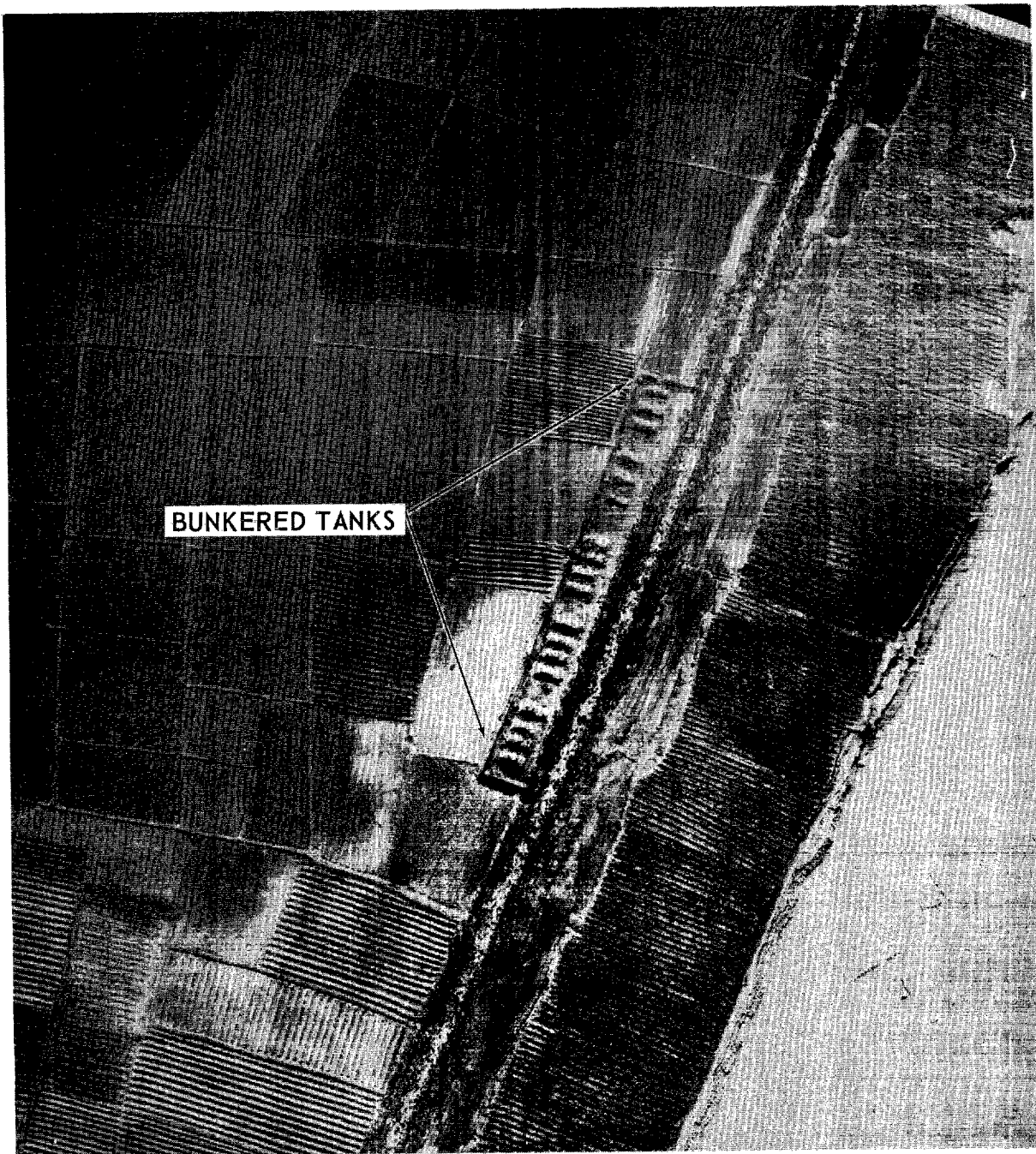
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CAP DIEN PETROLEUM PRODUCTS STORAGE

XJ364283
UTM COORDINATES

2103N 10618E
GEOGRAPHIC COORDINATES



25X1C

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CONFIDENTIAL
NO FOREIGN DISSEM [REDACTED]

B178

25X1C

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R-218/66

8 March 1967

NO FOREIGN DISSEM [REDACTED]

25X1A

	WF723648 UTM COORDINATES	1840N 10541E GEOGRAPHIC COORDINATES
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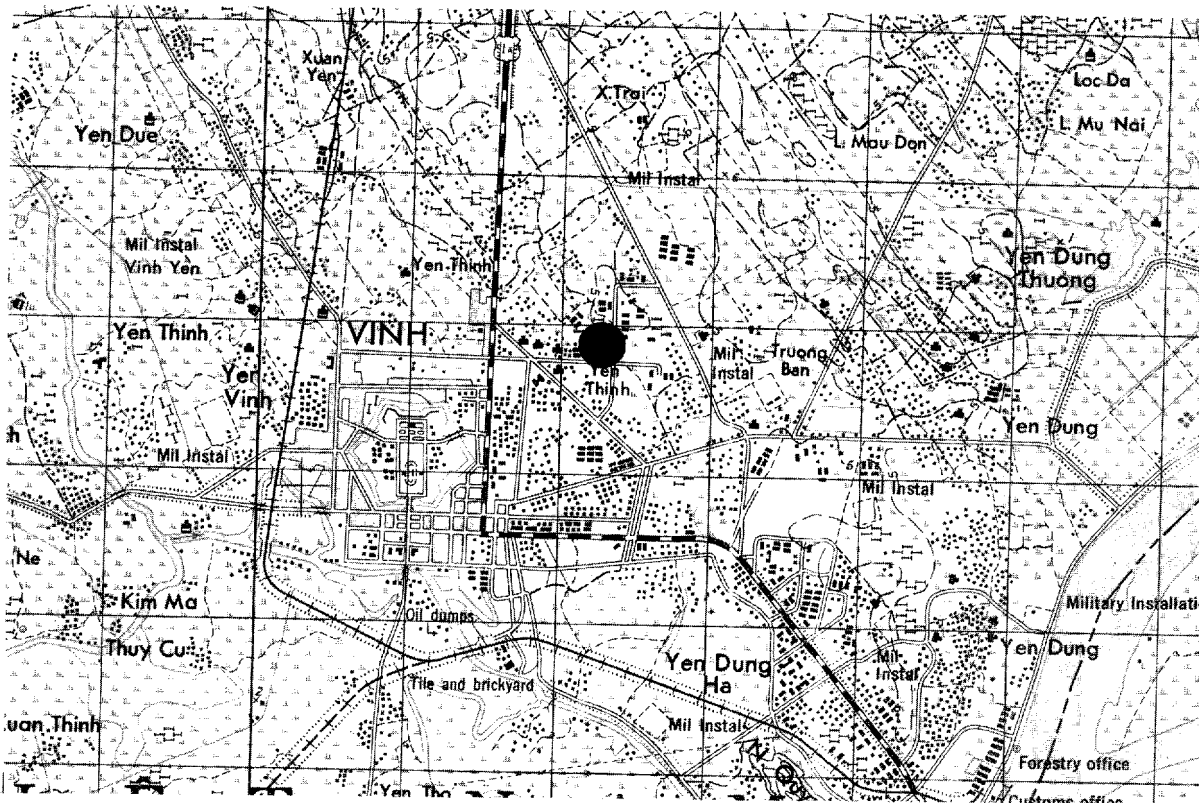
NAME: VINH PETROLEUM PRODUCTS STORAGE PUG NORTH NO 2**LOCATION:** NE EDGE OF VINH, 0.4 NM EAST OF ROUTE 1A, AND 3.5 NM WEST OF SONG CA**DESCRIPTION:** AREA CONTAINS A TOTAL OF 15 LARGE BUNKERED TANKS, 3 BUNKERS WITH 3 TANKS EACH AND 3 BUNKERS WITH 2 TANKS EACH

25X1D

25X1D

ESTIMATED CAPACITY: TANK 375 MT**MAP REFERENCES:** AMS SERIES L7014, SHEET 6146 III, 1ST ED, 1965 (U)

25X1D AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)



25X1C

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B17J

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NO FOREIGN DISSEM [REDACTED]

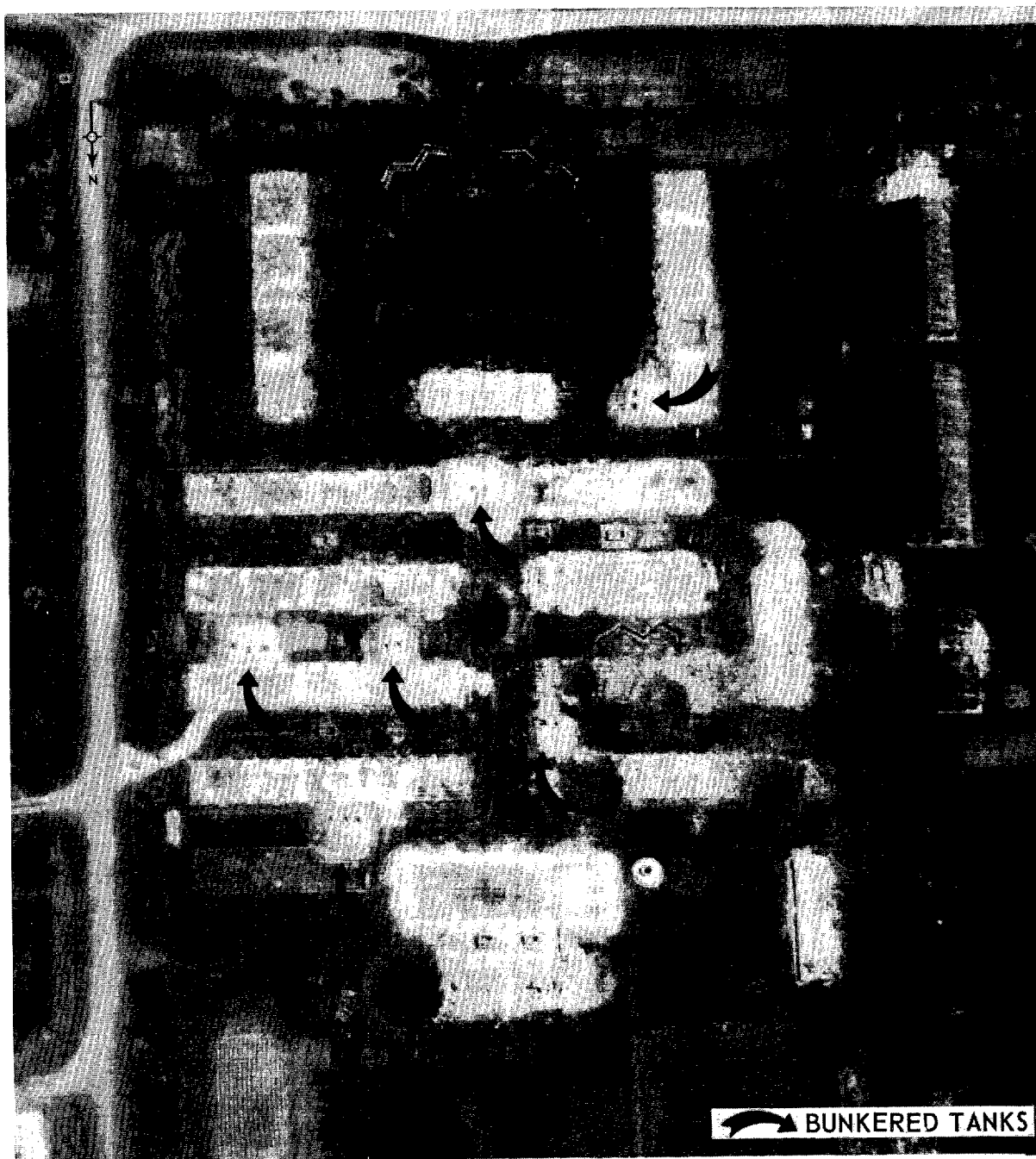
25X1C

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~~CONFIDENTIAL~~
NO FOREIGN DISSEM [REDACTED] R-218/66
8 March 1967

VINH PETROLEUM PRODUCTS STORAGE PUG NORTH NO 2

WF723648
UTM COORDINATES

1840N 10541E
GEOGRAPHIC COORDINATES



25X1C

B130
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~~CONFIDENTIAL~~
NO FOREIGN DISSEM [REDACTED]

25X1A

	WF693392 UTM COORDINATES	1826N 10539N GEOGRAPHIC COORDINATES
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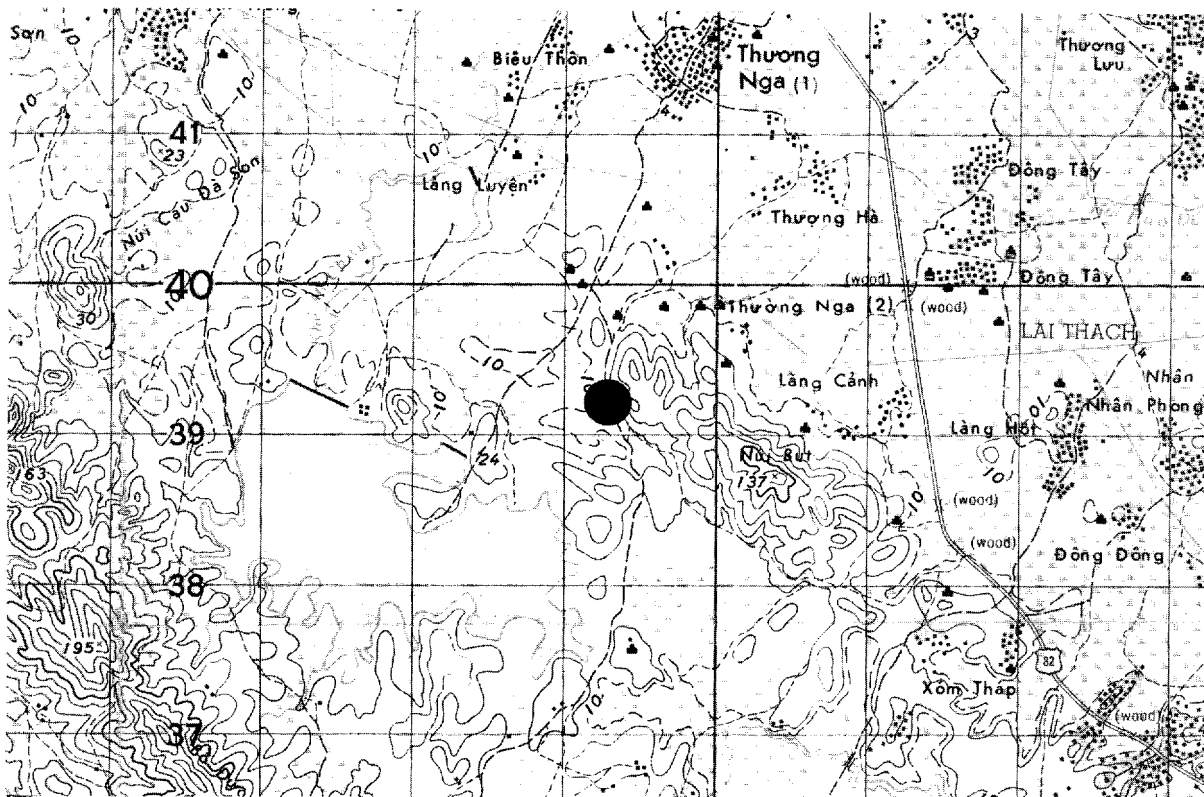
NAME: XOM THAP PETROLEUM PRODUCTS STOPAGE

LOCATION: 1.8 NM NW OF XOM THAP AND 1.1 NM WEST OF ROUTE 82

DESCRIPTION: AREA CONTAINS 15 BUNKERED TANKS AND 17 EMPTY EXCAVATIONS.
(ALL EXCAVATIONS ARE NOT SHOWN ON GRAPHIC.)

ESTIMATED CAPACITY: TANK 180 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6145 IV, 1ST ED, 1965 (U)
25X1D AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)



25X1C

25X1C

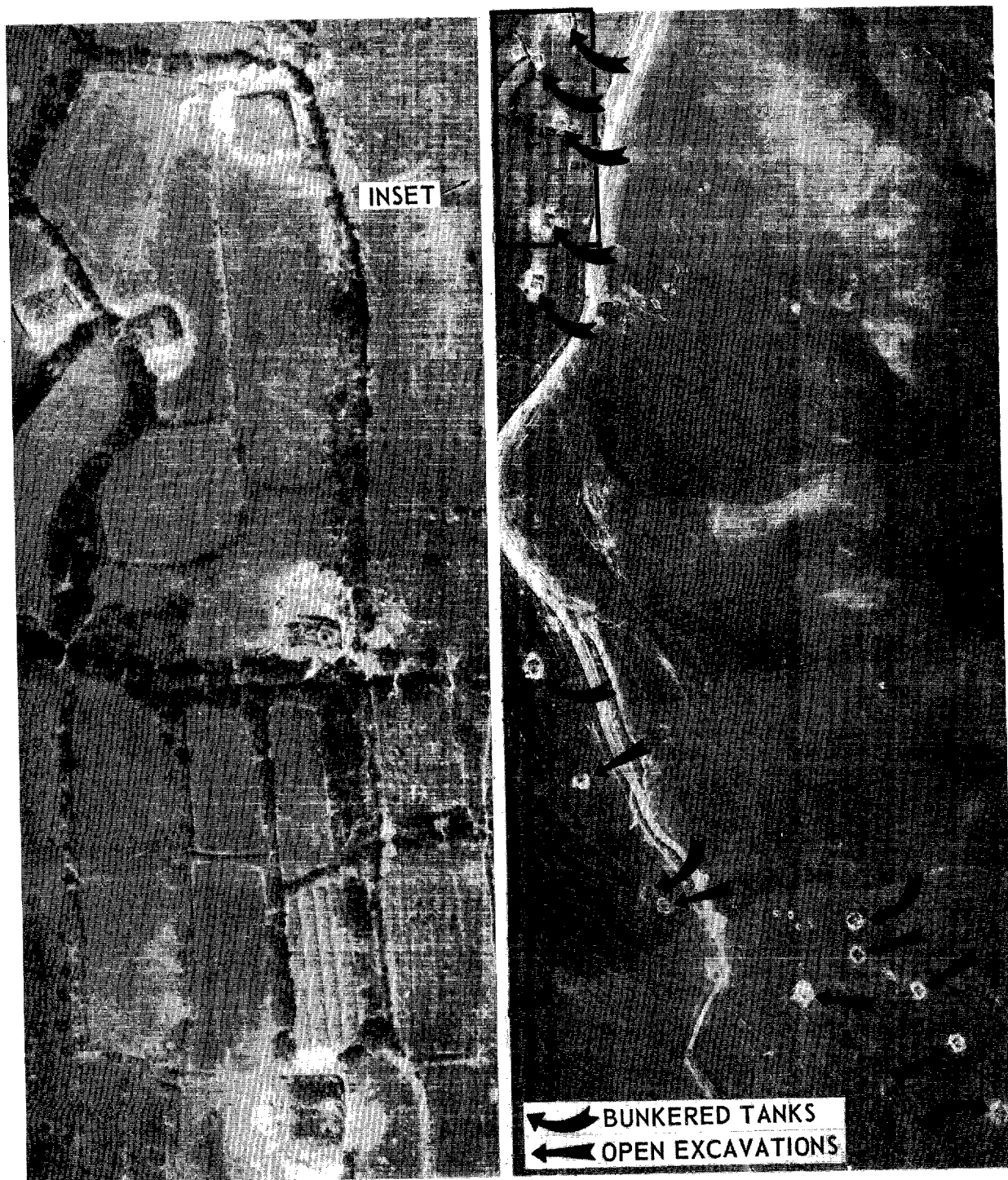
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CONFIDENTIAL
NO FOREIGN DISSEM

R-218/66
8 March 1967

XOM THAP PETROLEUM PRODUCTS STORAGE

WF693392
UTM COORDINATES

1826N 10539E
GEOGRAPHIC COORDINATES



B152

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25X1C
CONFIDENTIAL
NO FOREIGN DISSEM

CONFIDENTIAL

25X1A



WF705659
UTM COORDINATES

10411 10540E
GEOGRAPHIC COORDINATES

NAME: VINH PETROLEUM PRODUCTS STORAGE PUG NORTH JO 3

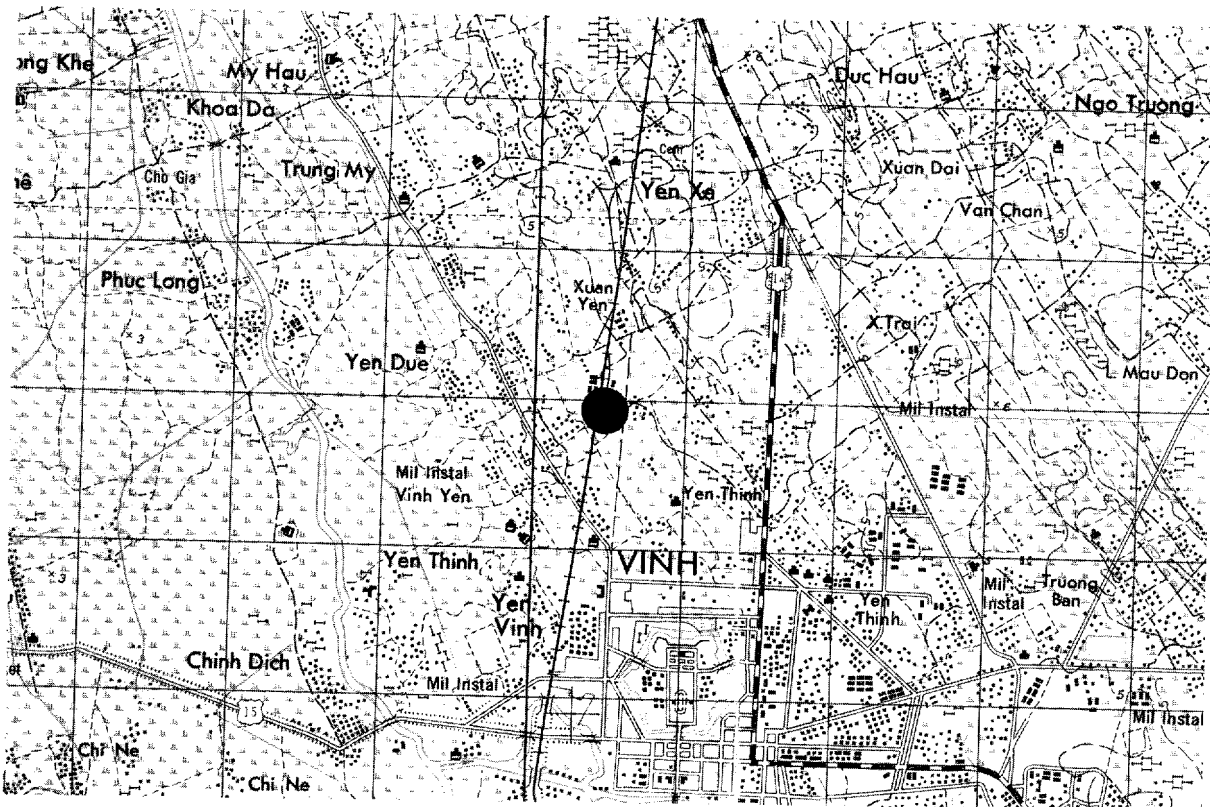
LOCATION: AT VINH RAIL YARD, 1 NM NORTH OF VINH CITY 25X1D

DESCRIPTION: AREA CONTAINS 3 SMALL TANKS IN 4 BULKERS

25X1D

ESTIMATED CAPACITY: TANK 54 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6146 III, 1ST ED, 1965 (U)
25X1D AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)



25X1C

8133

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VINH PETROLEUM PRODUCTS STORAGE PUG NORTH NO 3

WF705659
UTM COORDINATES

1841N 10540E
GEOGRAPHIC COORDINATES



0617-
BE NUMBER

XE591344
UTM COORDINATES

1729N 10629E
GEOGRAPHIC COORDINATES

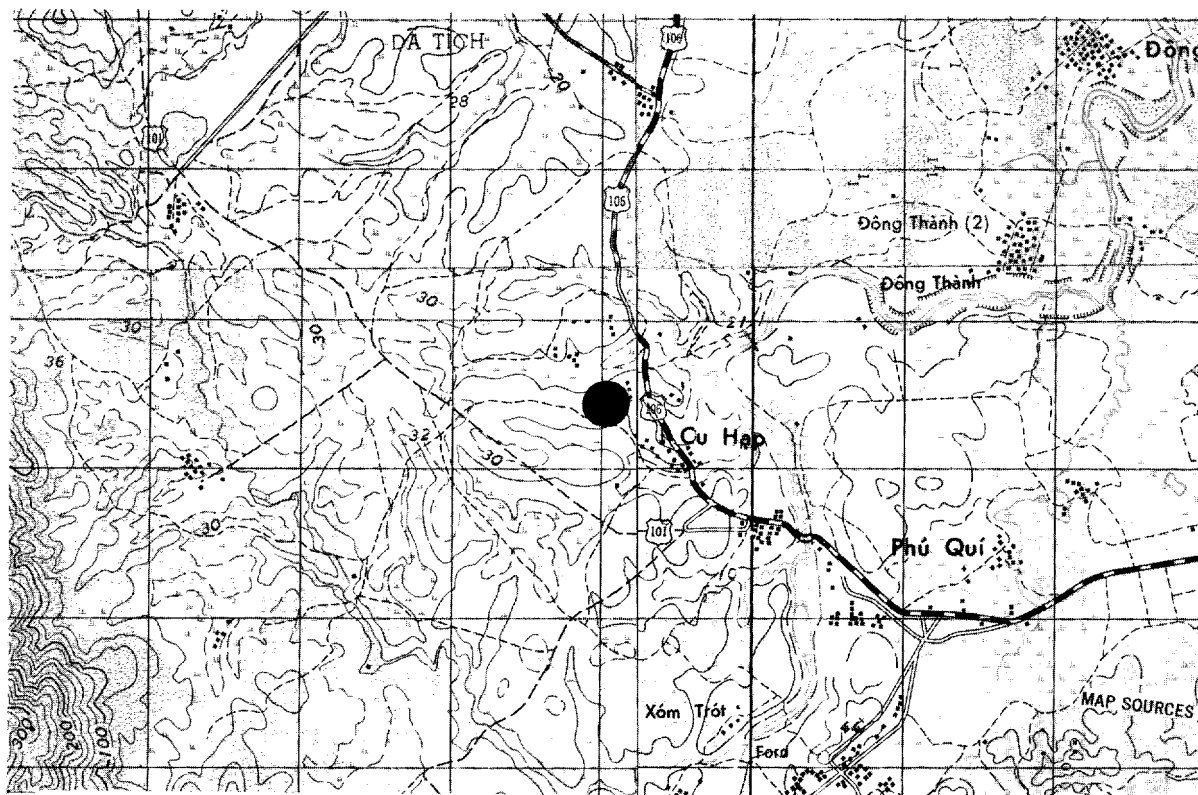
NAME: CU HAP PETROLEUM PRODUCTS STORAGE

LOCATION: IMMEDIATELY WEST OF ROUTE 106 AND 0.4 KM WEST OF CU HAP

DESCRIPTION: AREA CONTAINING 2 BUNKERS, EACH WITH 2 LARGE TANKS, PROBABLY SERVES ASSOCIATED VEHICLE PARK.

ESTIMATED CAPACITY: TANK 100 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6243-I, 1ST ED, 1965 (U)
25X1D AMS SERIES JOG(G) 1501, SHEET NE 48-11, 1ST ED, JUN 65 (U)



25X1C

B135

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CU MAP PETROLEUM PRODUCTS STORAGE

XE591344
UTM COORDINATES

1729N 10629E
GEOGRAPHIC COORDINATES



25X1C

B186
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NO FOREIGN DISSEM

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	POL Storage at Phu Tho Chemical Fertilizer Plant Lam Thao	D29, D30
	Ben Thuy Thermal Powerplant (POL Storage Area)	D31, D32
	POL Trucks on Polish Ship (Hai Phong Area)	D33, D34
	POL Tanks in Ha Noi	D35, D36
	Uong Bi Powerplant (Petroleum Products Storage)	D37, D38
	Cong My Transshipment Facility and POL Barges	D39, D40
	Thai Nguyen Thermal Powerplant (Petroleum Storage)	D41, D42
	Thon Nieu Tank Fabrication Area (Thai Nguyen Complex)	D43, D44
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	POL Tanks at Hai Phong Thermal Powerplant	D49, D50
	POL Storage Tanks Hai Phong	D51, D52
	POL Storage Tanks Xom Dong	D53, D54
	Giap Nhat POL Transshipment area	D55, D56

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R-218/66

0616-
BE NUMBER

WJ809323
UTM COORDINATES

2105N 10546E
GEOGRAPHIC COORDINATES

NAME: THUY PHUONG POL STORAGE TANKS

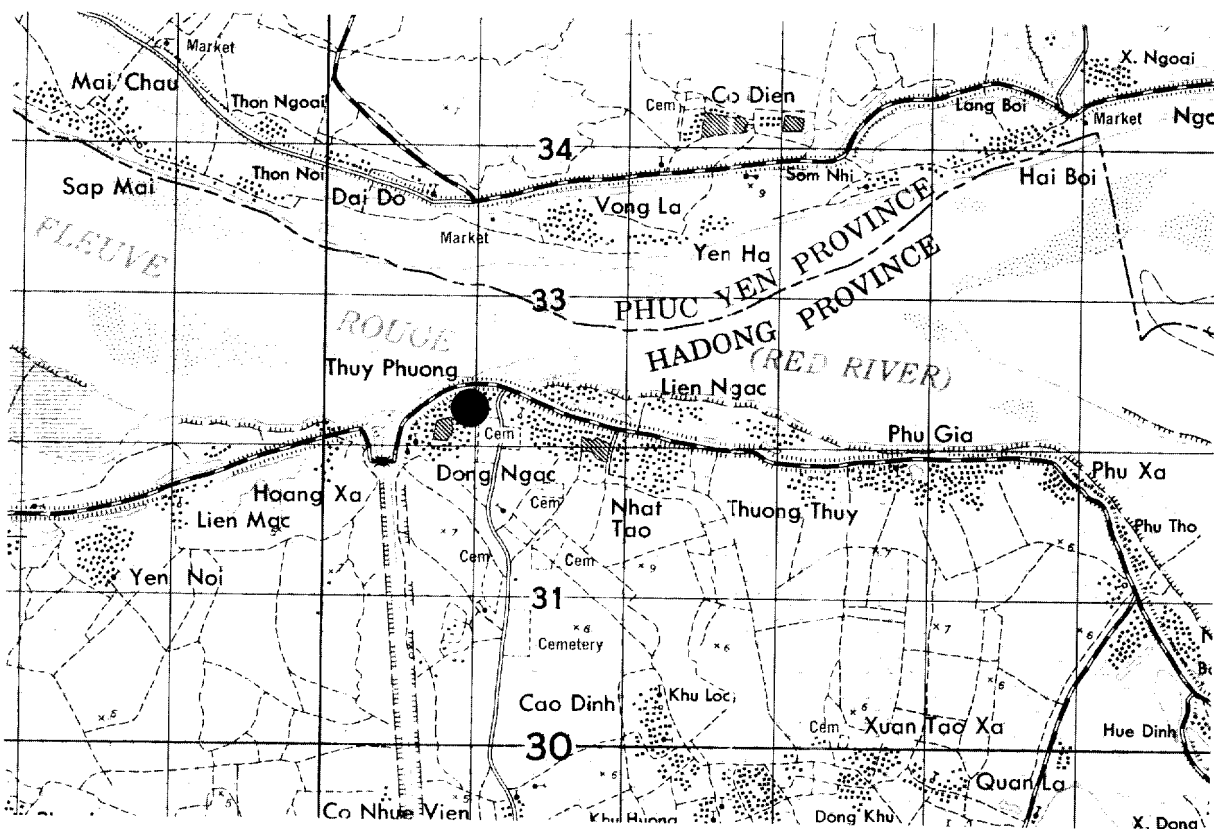
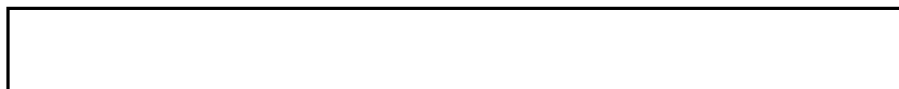
LOCATION: NE SECTION OF THUY PHUONG AND 5.3 NM NW OF HA NOI

DESCRIPTION: SITE CONTAINS A TOTAL OF 65 (55 STANDARD AND 10 LARGE) TANKS IN RANDOM STORAGE. THIRTY-SIX UNASSEMBLED TANK SECTIONS ARE ALSO OBSERVED. NO PERMANENT POL STOPAGE FACILITY IS APPARENT AT THIS SITE.

ESTIMATED CAPACITY: NOT APPLICABLE

MAP REFERENCES: AMS SERIES L701, SHEET 6174 II, 3D ED, APR 63 (U)
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

25X1D



25X1C

D1

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25X1C

CONFIDENTIAL

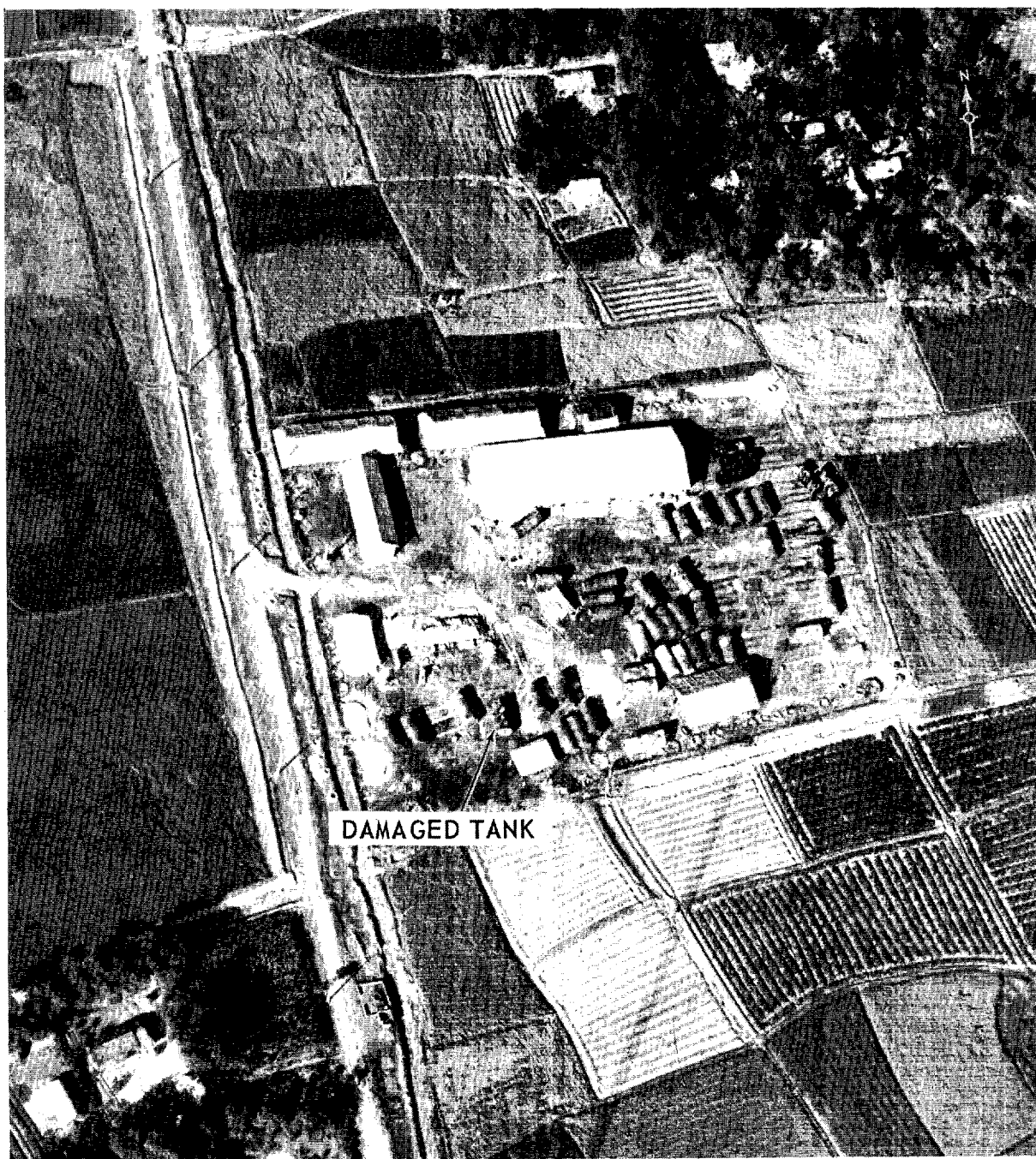
R-218/66

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NO FOREIGN DISSEM

POL STORAGE TANKS XOM DONG

WJ852378
UTM COORDINATES

2108N 10549E
GEOGRAPHIC COORDINATES



D54

25X1C

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NO FOREIGN DISSEM

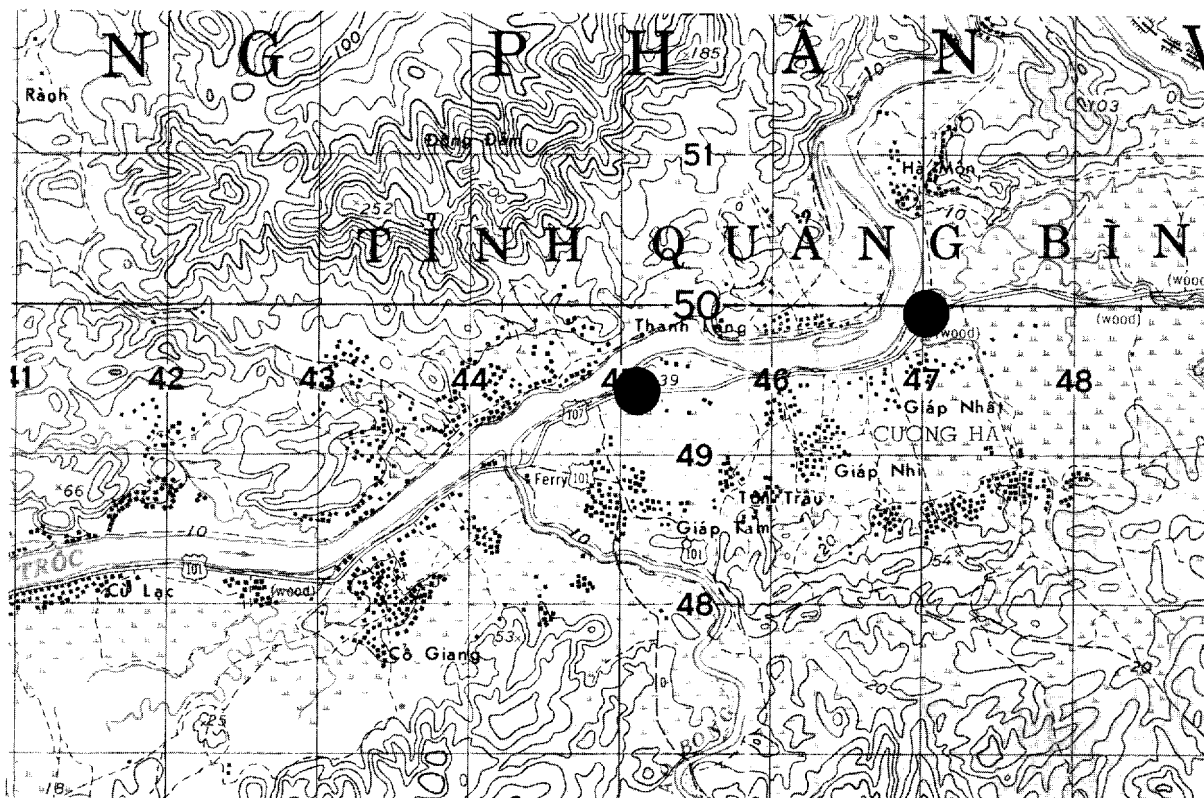
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NO FOREIGN DISSEM

1737N 10622E
GEOGRAPHIC COORDINATES

LOCATION: BETWEEN SOUTH BANK OF THE SONG TRUC AND ROUTE 107, IN VICINITY OF GIAP THAT

ESTIMATED CAPACITY: TANK 30 MT, DRUM 70 MT

MAP REFERENCES: A16 SERIES L7014, SHEET 6244-11, 1ST ED, 1965 (U)
25X1D A16 SERIES J09(G) 1501, SHEET 48-11, 1ST ED, JUN 65 (U)



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NO FOREIGN DISSE

GIAP NHAT POL TRANSSHIPMENT AREA

XE457496
UTM COORDINATES

1737N 10622E
GEOGRAPHIC COORDINATES



D56

SECRET

R-218/66
March 1967

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25X1A

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	Ha Noi Petroleum Products Storage Thanh Am (JCS-49)	X-A7
	Nguyen Khe Petroleum Products Storage (JCS-51.0)	X-A9
	Bac Giang Petroleum Products Storage (JCS-51.11)	X-A11
	Nam Dinh Petroleum Products Storage (JCS-51.12)	X-A13
	Hai Phong Petroleum Products Storage (JCS-48)	X-A15
	Duong Nham Petroleum Products Storage (JCS-51.17)	X-A17
	Do Son Petroleum Storage (JCS-51.13)	X-A19
	Phu Van POL Storage (JCS-42)	X-A21
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25X1C

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HA CIA PETROLEUM PRODUCTS STORAGE SITE OFFERED
JCS-51.1

R-218/66
8 March 1967

25X1A

VJ868516
UTM COORDINATES

2116N 10550E
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS RAIL- AND ROAD-SERVED STORAGE SITE, 3.4 NM NNE OF PHUC YEN AIRFIELD, FORMERLY CONSISTED OF 9 PARTIALLY RUINED CYLINDRICAL TANKS AND 8 HORIZONTAL BUNKERED TANKS DISPERSED AMONG LOW HILLS. IT HAD A PRE-STRIKE ESTIMATED CAPACITY OF 11,800 MT.

THIS STORAGE SITE IS BELIEVED TO PROVIDE BACKUP TO THE ON-SITE STORAGE FACILITIES AT PHUC YEN AIRFIELD.

THIS TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM OF THE AREA. HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE SEVERAL MONTHS AND HEAVY OUTSIDE ASSISTANCE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

THE CUMULATIVE RESULTS OF THE AIR STRIKES IS ABOUT 11 PERCENT LOSS OF POL STORAGE CAPACITY. PHOTOGRAPHY [REDACTED] REVEALS TWO LARGE UNDERGROUND VERTICAL TANKS ARE DESTROYED, 1 HORIZONTAL TANK POSSIBLY DESTROYED, THE UNDERGROUND PIPELINE HAS BEEN CUT IN 3 PLACES, BOTH DEADEND RAIL SPURS ARE INTERDICTED BUT ARE UNDER REPAIR, NUMEROUS BUILDINGS HAVE BEEN DESTROYED OR DAMAGED, AND AT LEAST 220 CRATERS ARE VISIBLE IN AND AROUND THE AREA. THE AREA HAS A PRESENT ESTIMATED CAPACITY OF 9,188 MT.

25X1

25X1C

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X-A5

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8 March 1967

25X1A

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25X1C

25X1C

NO FOREIGN DISSEM

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25X1A

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25X1C

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NO FOREIGN DISSEM

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25X1C

25X1A

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25X1C

NO FOREIGN DISSEM

BA DON PETROLEUM PRODUCTS STORAGE

25X1C

R-218/66
8 March 1967

25X1A

XE526634
UTM COORDINATES

1745N 10626E
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

25X1 PHOTOGRAPHY [REDACTED] REVEALED THAT THIS SITE, 0.8 NM EAST OF BA
DON AND IMMEDIATELY NORTH OF ROUTE 110, CONTAINED 16 BUNKERED TANKS AND
25X1 ABOUT 1,400 DRUMS WITH A TOTAL ESTIMATED CAPACITY OF 472 MT. PHOTOGRAPHY
[REDACTED] REVEALS THE AREA TO BE EXTENSIVELY CRATERED AND
PROBABLY ABANDONED. NO DRUM STORAGE IS APPARENT AND ONLY 6 BUNKERED
TANKS AND 1 UNBURIED TANK REMAIN. IT HAS A PRESENT ESTIMATED CAPACITY
OF 84 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC
RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM
SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM OF THE AREA. HMC
AND SMALL ART'S FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE
APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM
IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE
VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO
CONTINUE INDEFINITELY.

25X1C

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B75

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CAP DIEN PETROLEUM PRODUCTS STOPAGE

R-218/66
8 March 1967

25X1

XJ364283
UTM COORDINATES

2103N 10618E
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES 0.5 NM EAST OF CAP DIEN, ON THE EAST BANK OF THE SONG THAI BINH. IT IS SERVED BY BOTH ROAD AND WATER AND CONTAINS 1 ROW OF 18 BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 216 MT.

THIS AREA IS PART OF THE DISPERSED STOPAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. NO AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN A RADIUS OF 3 NM. NO HMG OR SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B177

25X1C

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NO FOREIGN DISSEM

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25X1C

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NO FOREIGN DISSEM

SECRET

VINH PETROLEUM PRODUCTS STORAGE PARTLY UNDERGROUND NORTH NO. 2

8 March 1967

WF723648
UTM COORDINATES

25X1A

1840N 10541E
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS ON THE NE EDGE OF VINH, 0.4 NM EAST OF ROUTE 1A, AND 3.5 NM WEST OF THE SONG CA. IT CONTAINS A TOTAL OF 15 LARGE TANKS IN 6 BUNKERS, OF WHICH 3 BUNKERS HAVE 3 TANKS EACH AND 3 BUNKERS HAVE 2 TANKS EACH. ESTIMATED CAPACITY IS 375 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN A 3-NM RADIUS. HMC AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

25X1C

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B179

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NO FOREIGN DISSEM

SECRET

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25X1C

NO FOREIGN DISSEM [REDACTED]

XOM THAP PETROLEUM PRODUCTS STORAGE

R-218/66
8 March 1967

WF693392
UTM COORDINATES

25X1A

[REDACTED]

1826N 10539E
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

LOCATED 1.8 NM NW OF XOM THAP AND 1.1 NM WEST OF ROUTE 82, THIS STORAGE SITE CONTAINS 15 BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 180 MT AND 17 EMPTY EXCAVATIONS.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM OF THE TARGET. HMG AND SMALL ARMS FIRE IS NOT ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

25X1C

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B181

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NO FOREIGN DISSEM [REDACTED]

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25X1C

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NO FOREIGN DISSEM
VINH PETROLEUM PRODUCTS STORAGE PARTLY UNDERGROUND NORTH NO. 3

R-218/66

8 March 1967

WF705659
UTM COORDINATES

25X1A

1841N 10540E
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE, AT THE VINH RAIL YARD AND 1 NM NORTH OF VINH CITADEL, CONTAINS 8 SMALL TANKS IN 4 BUNKERS. IT HAS AN ESTIMATED CAPACITY OF 54 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN A RADIUS OF 3 NM. HMC AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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NO FOREIGN DISSEM

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NO FOREIGN DISSEM

CU HAP PETROLEUM PRODUCTS STORAGE

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8 March 1967

XE591344
UTM COORDINATES

1729N 10629E
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

LOCATED IMMEDIATELY WEST OF ROUTE 106 AND 0.4 NM WNW OF CU HAP, THIS STORAGE SITE CONTAINS 2 BUNKERS, EACH WITH 2 LARGE TANKS. IT HAS AN ESTIMATED CAPACITY OF 100 MT. AN ASSOCIATED VEHICLE PARK IS NEARBY.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM OF THE TARGET. HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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X-B185

NO FOREIGN DISSEM

ANNEX II

25X1A

Installation Name	Capacity	
	MT Water	MT POL
Viet Tri Petroleum Products Storage	25	21
Phuc Yen Airfield POL Storage Area	4,200	3,530
Hia Gia Petroleum Products Storage SSW UG	9,188	7,718
Ha Noi Petroleum Products Storage Thanh Am	600	504
Nguyen Khe Petroleum Products Storage	5,925	4,977
Bac Giang Petroleum Products Storage	1,900	1,596
Nam Dinh Petroleum Products Storage	13,120	11,021
Hai Phong Petroleum Products Storage	48,348	40,612
Duong Nham Petroleum Products Storage	--	--
Do Son Petroleum Storage	1,700	1,428
Phu Van POL Storage	--	--
Vinh Petroleum Products Storage	1,600	1,344
Phu Qui Petroleum Products Storage	9,000	7,560
Ha Noi/Gia Lam Airfield POL Storage Area	850	714
La Danh Petroleum Products Storage PUG	2,359	1,982
Van Lung Petroleum Products Storage UG	352	295
Van Lung Petroleum Products Storage West UG	84	71
Hoang Mai POL Storage Area	300	252
Ha Noi Petroleum Products Thi Cam	468	393
Bai Thuong Petroleum Products Storage UG Southeast	756	635
Son La Petroleum Products Storage	384	323
Thuong Thon Petroleum Products Storage UG	--	--
Ngoc Son Petroleum Products Storage PUG	348	292
Thai Lai Petroleum Products Storage	120	101
Yen Hau Petroleum Products Storage PUG	396	333
Thanh Lang Petroleum Products Storage PUG	1,044	877
Ha Noi Petroleum Products Storage UG Thanh Liet (Area 1)	516	433
Ha Noi Petroleum Products Storage UG Thanh Liet (Area 2)	120	101
Bang So Petroleum Products Storage PUG	234	197
Son Chau Petroleum Products Storage PUG	336	282
Can Thon Petroleum Products Storage	3,100	2,604
Ha Noi Petroleum Products Storage Duc Noi (Area 1)	1,108	931
Ha Noi Petroleum Products Storage Duc Noi (Area 2)	849	713
Ha Noi Petroleum Products Storage Duc Noi (Area 3)	300	252
Ha Noi Petroleum Products Storage Duc Noi (Area 4)	132	111

25X1C

25X1C

NO FOREIGN DISSEM

ANNEX II (Continued)

25X1A

BE No.

Installation Name

Capacity
MT Water MT POL

Cu Van Petroleum Products Storage	2,175	1,827
Cu Van Petroleum Products Storage East UG	1,300	1,092
Dao Quan Petroleum Products Storage East	444	373
Dao Quan Petroleum Products Storage West	360	302
Nam Dinh Petroleum Products Storage PUG	300	252
Thai Nguyen Petroleum Products Storage PUG South	1,320	1,109
Phuc Yen Airfield POL Storage Area 1	300	252
Phuc Yen Airfield POL Storage Area 2	750	630
Xom Duong Quan Petroleum Products Storage UG East	72	60
Xom Duong Quan Petroleum Products Storage UG	43	36
Nui Tap Tinh POL Storage Area	26.6	22.3
Sac Le POL Storage Area	168	141
Phu Dong POL Storage Area	420	352
Thuan Le POL Storage Area	273	229
Phuc Loc Petroleum Products Storage	156	131
Thanh Hoa POL Storage Area	118	99
Ba Don Petroleum Products Storage	84	71
Phuc Loi Petroleum Products Storage Navy	300	252
Tho Trang Petroleum Products Storage	250	210
Ninh Giang Petroleum Products Storage	324	272
Viet Yen Petroleum Products Storage	1,440	1,210
Kep Ha Petroleum Products Storage	96	81
Tien Hoi Petroleum Products Storage	468	393
Dong Mai Petroleum Products Storage	276	232
Xom Lang POL Storage	312	262
Van Hoa POL Storage	144	121
Phu Lo Petroleum Products Storage NNE UG	228	192
Jaune Island POL Storage	48	40
Co Nhue Vien POL Storage	312	262
Quang Suoi Petroleum Products Storage	148	124
Trung Phu Petroleum Products Storage	184	155
Gia Hoa Petroleum Products Storage PUG	132	111
Bai Chay Petroleum Products Storage	53	45
Vinh Petroleum Products Storage Yen Thinh	132	111
Ba Don Petroleum Products Storage UG West	99	83
Bac Ninh Petroleum Products Storage	204	169
Vinh Petroleum Products Storage PUG Xuan Yen	70	59

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ANNEX II (Continued)

25X1A

Installation Name	Capacity	
	MT Water	MT POL
Tri Binh Petroleum Products Storage	48	40
Xuyen Duong Petroleum Products Storage	--	--
Cau Cong Petroleum Products Storage	384	323
Tung Tu Petroleum Products Storage UG	375	315
Don Son Petroleum Products Storage	744	625
Quy Khe Petroleum Products Storage	1,344	1,129
Tran Xa Petroleum Products Storage	1,250	1,050
Than Hoa Petroleum Products Storage	84	71
Tram Du Petroleum Products Storage	1,050	882
Luc Nong Petroleum Products Storage	720	605
Thai Nguyen Petroleum Products Storage	99	83
Tien Nong Petroleum Products Storage	420	353
Vinh Petroleum Products Storage PUG Ben Thuy	168	141
Chi Linh Petroleum Products Storage	1,728	1,452
Vinh Petroleum Products Storage PUG Yen Dai	72	60
Hoang Pha Petroleum Products Storage	240	202
Kien An POL Storage	288	242
Phu Thi Petroleum Products Storage	360	302
Phuc Yen Petroleum Products Storage	72	60
Vinh Petroleum Products Storage North UG	96	81
Mach Trang Petroleum Products Storage	112	94
Tram Bac Petroleum Products Storage	1,275	1,071
Nam Lo Petroleum Products Storage	1,000	840
Ha Noi Petroleum Products Storage Duc Noi (Area 5)	261	219
Lai Son Petroleum Products Storage	661	555
Phu Xa Petroleum Products Storage	200	168
Hoa Loan Petroleum Products Storage	108	91
Tu Hoang Petroleum Products Storage	175	148
Tay Tuu Petroleum Products Storage East	325	273
Nguyen Khe Petroleum Products Storage	36	30
Cap Dien Petroleum Products Storage	216	181
Vinh Petroleum Products Storage PUG North No 2	375	315
Xom Thap Petroleum Products Storage	180	151
Vinh Petroleum Products Storage PUG North No 3	54	45
Cu Hap Petroleum Products Storage	100	84

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Cu Hap Petroleum Products Storage	1729N 10629E	B185, B186, X-B185
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Xom Lang POL Storage	1737N 10626E	B91, B92, X-B91
Ba Don Petroleum Products Storage UG West	1745N 10625E	B111, B112, X-B111
Ba Don Petroleum Products Storage	1745N 10626E	B75, B76, X-B75
Thanh Thuy POL Tanks	1747N 10615E	D9, D10
Dien Xa POL Storage	1822N 10544E	C13, C14
Xom Thap Petroleum Products Storage	1826N 10539E	B181, B182, X-B181
Ngoc Son Petroleum Products Storage PUG	1832N 10542E	B17, B18, X-B17
Ben Thuy Thermal Powerplant (POL Storage Area)	1838N 10542E	D31, D32
Gia Hoa Petroleum Products Storage PUG	1838N 10542E	B105, B106, X-B105
Vinh Petroleum Products Storage PUG Ben Thuy	1839N 10542E	B141, B142, X-B141
Vinh Petroleum Products Storage Yen Thinh	1840N 10540E	B109, B110, X-B109
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Ky Tran POL Storage Area	1847N 10540E	C1, C2
Phu Van POL Storage Area	1851N 10519E	A21, A22, X-A21
Nho Lam POL Drum Transshipment Area	1856N 10535E	D13, D14
Thuan Le POL Storage Area	1812N 10604E	B69, B70, X-B69
Ky Anh POL Drum Storage	1840N 10618E	C3, C4
Yen Hau Petroleum Products Storage PUG	1908N 10534E	B21, B22, X-B21
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Son Chau Petroleum Products Storage PUG	1918N 10543E	B31, B32, X-B31
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Luc Nong Petroleum Products Storage	2055N 10634E	B135, B136, X-B135
Thai Lai Petroleum Products Storage	2055N 10637E	B19, B20, X-B19
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Duong Nham Petroleum Products Storage	2101N 10630E	A17, A18, X-A17

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